



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D2348
Job Sheet 185893



Part No: D2348

Job Qty: 20 ea

Part Name: Wearplate (Key Way)



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/6/18

Job Tracking No:

Due Date: 11/27/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV C IPP Rev A Removed from 9 Digit 05-12-05 JLM IPP Rev:B Now on Waterjet 06-07-03 JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Waterjet - Flow - 1	20 pcs		11/27/18	0.01	0.74	Waterjet - Flow		SC 18/11/07
120	QC	20 pcs		11/27/18	0.00	0.00	QC8		38
150	Outsource	20 pcs		11/27/18			ATG001-VC	5	SC 18-11-12
160	Packaging	20 pcs		11/27/18	0.00	0.00	Packaging2		NOV 20 2018
170	QC	20 pcs		11/27/18	0.00	0.00	QC5		38
180	Small Fab	20 pcs		11/27/18	0.00	0.55	Small Fab		DAS 2-89
190	QC	20 pcs		11/27/18	0.00	0.00	QC5		38
200	Packaging	20 pcs		11/27/18	0.00	0.00	Packaging3		NOV 26 2018
210	QC21-SA	20 Ea		11/27/18	0.00	0.00	QC21		NOV 27 2018

Part Op 100 - 1-Cut as per Dwg D2348

Descriptions: 150 - Issue P/O: 04168 Black Anodize per Dwg D2348 Rev. C

160 - Ensure certificate of conformity is attached

170 - INSPECT CERTS

180 - Install Insert as per Dwg D2348

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M6061T6S.063	6061-T6 .063 Sheet	.3960 sf (.0198 ea)	100-Waterjet - Flow - 1	5119665
D3996-FE-832-EF	Self-Clinching Fastener	80 Ea (4 ea)	180-Small Fab	5092711

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Waterjet - Flow - 1	M6061T6S.063	0	176	0
180-Small Fab	D3996-FE-832-EF	80	400	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Wear Plate	0.250Inches $\pm$ 0.010	0.260 0.240	0,249	
2	Wear Plate	0.648Inches $\pm$ 0.010	0.658 0.638	0,650	
3	Wear Plate	0.795Inches $\pm$ 0.005	0.800	0,799	

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA-Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Quality ☐ Other ☐																																																																							
Date : _____		Step #: _____		Part: D2348 Job No: 185893 Serial No/Batch: S125460 Revision: _____ Inspector: _____ Exp Date: _____ Instructions: Various STC's Date: 11/07/18																																																																							
Description Work Order Devia		Date: _____																																																																									
Root Cause <table style="width:100%; border-collapse: collapse;"> <tr><td>Environment</td><td>☐</td><td>No Re-verification</td><td>☐</td></tr> <tr><td>Design</td><td>☐</td><td>Operator</td><td>☐</td></tr> <tr><td>Doc/Data</td><td>☐</td><td>Offset/Setup</td><td>☐</td></tr> <tr><td>Equip/Tooling</td><td>☐</td><td>Supplier</td><td>☐</td></tr> <tr><td>Handling/Pre</td><td>☐</td><td>Training</td><td>☐</td></tr> <tr><td>Material</td><td>☐</td><td>Use for Testing</td><td>☐</td></tr> <tr><td>Internal Transport</td><td>☐</td><td>Poor Information</td><td>☐</td></tr> <tr><td>Tribal Knowledge</td><td>☐</td><td>Rushing</td><td>☐</td></tr> <tr><td>LOA</td><td>☐</td><td>Product Improvement</td><td>☐</td></tr> <tr><td>Substation</td><td>☐</td><td>Process Improvement</td><td>☐</td></tr> <tr><td>Past Expiry Date</td><td>☐</td><td>Manufacturing Process</td><td>☐</td></tr> <tr><td>Misidentified</td><td>☐</td><td>Past Due</td><td>☐</td></tr> </table>		Environment	☐	No Re-verification	☐	Design	☐	Operator	☐	Doc/Data	☐	Offset/Setup	☐	Equip/Tooling	☐	Supplier	☐	Handling/Pre	☐	Training	☐	Material	☐	Use for Testing	☐	Internal Transport	☐	Poor Information	☐	Tribal Knowledge	☐	Rushing	☐	LOA	☐	Product Improvement	☐	Substation	☐	Process Improvement	☐	Past Expiry Date	☐	Manufacturing Process	☐	Misidentified	☐	Past Due	☐	<table style="width:100%; border-collapse: collapse;"> <tr><td>Pressure/F</td><td>☐</td></tr> <tr><td>Bending</td><td>☐</td></tr> <tr><td>Centre Not</td><td>☐</td></tr> <tr><td>Cracks</td><td>☐</td></tr> <tr><td>Crimp/Kink/Ripple/Wave</td><td>☐</td></tr> <tr><td>Cuffs</td><td>☐</td></tr> <tr><td>Crushing</td><td>☐</td></tr> <tr><td>Heat Treat</td><td>☐</td></tr> <tr><td>Wave/Twist in Tube</td><td>☐</td></tr> <tr><td>Marks/Chatter</td><td>☐</td></tr> <tr><td colspan="2">OTHER : _____</td></tr> </table>				Pressure/F	☐	Bending	☐	Centre Not	☐	Cracks	☐	Crimp/Kink/Ripple/Wave	☐	Cuffs	☐	Crushing	☐	Heat Treat	☐	Wave/Twist in Tube	☐	Marks/Chatter	☐	OTHER : _____	
Environment	☐	No Re-verification	☐																																																																								
Design	☐	Operator	☐																																																																								
Doc/Data	☐	Offset/Setup	☐																																																																								
Equip/Tooling	☐	Supplier	☐																																																																								
Handling/Pre	☐	Training	☐																																																																								
Material	☐	Use for Testing	☐																																																																								
Internal Transport	☐	Poor Information	☐																																																																								
Tribal Knowledge	☐	Rushing	☐																																																																								
LOA	☐	Product Improvement	☐																																																																								
Substation	☐	Process Improvement	☐																																																																								
Past Expiry Date	☐	Manufacturing Process	☐																																																																								
Misidentified	☐	Past Due	☐																																																																								
Pressure/F	☐																																																																										
Bending	☐																																																																										
Centre Not	☐																																																																										
Cracks	☐																																																																										
Crimp/Kink/Ripple/Wave	☐																																																																										
Cuffs	☐																																																																										
Crushing	☐																																																																										
Heat Treat	☐																																																																										
Wave/Twist in Tube	☐																																																																										
Marks/Chatter	☐																																																																										
OTHER : _____																																																																											

			0.790		
4	Wear Plate	2.046Inches $\pm$ 0.010	2.056 2.036	2,045	
5	Wear Plate	1.295Inches $\pm$ 0.010	1.305 1.285	1,298	
6	Wear Plate	0.656Inches + 0.005 - 0.000	0.661 0.656	0,656	Diameter
7	Wear Plate	0.290Inches + 0.003 - 0.000	0.293 0.290	0,290	Diameter
8	Wear Plate	0.250Inches $\pm$ 0.010	0.260 0.240	0,249	Diameter
9	Wear Plate	0.250Inches $\pm$ 0.010	0.260 0.240	0,250	
10	Wear Plate	0.648Inches $\pm$ 0.010	0.658 0.638	0,650	
11	Wear Plate	1.546Inches $\pm$ 0.005	1.551 1.541	1,545	

Plex 11/6/18 11:30 AM Dart.lajeunesse.marie

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA-Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041681**

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO041681

PO Date: 11/12/18

Due Date: 12/4/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: * each line has different date, please confirm if dates are okay*

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	185893	D2348	Wearplate (Key Way) : Various STC's Issue P/O: Black Anodize per Dwg D2348 Rev. C	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$1.75/pcs	\$35.00
2	176341	RBT18649-1-4	Base -Issue P/O to ATG; PO -ANODIZE COLOR BLACK, PER IAW MIL- A-8625F TYPE 2 CLASS 2, Water sealant -Certificate of Conformity is required	Firmed	-	12/4/18	6 pcs	0 pcs	6 pcs	\$7.30/pcs	\$43.80
3	178464	RBT112800-1	Base -Issue P/O to ATG: - ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 WATER SEAL As per Dwg RBT112800 Rev. 3A -Certificate of Conformity is required	Firmed	-	12/4/18	6 pcs	0 pcs	6 pcs	\$4.75/pcs	\$28.50



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041681**

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	178967	RBE703A94-1130-01-11	Angle Indicator - Issue P/O to ATG : ANODIZE COLOR CLEAR, PER IAW MIL-A-8625F TYPE 2 CLASS 1 WATER SEALANT - Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$2.30/pcs	\$46.00
5	185611	D5581-4	Clip, Aft, RH : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5581 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	10 pcs	0 pcs	10 pcs	\$7.88/pcs	\$78.80
6	185588	D5590-2	Gusset, Inboard RH : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5590 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	3 pcs	0 pcs	3 pcs	\$8.18/pcs	\$24.54
7	185600	D5581-3	Clip, Aft, LH : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5581 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	10 pcs	0 pcs	10 pcs	\$7.88/pcs	\$78.80



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041681**

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
8	185596	D5579-1	Center Clip, Cable Cutter : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5579 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	10 pcs	0 pcs	10 pcs	\$7.88/pcs	\$78.80
9	185587	D5590-1	Gusset, Inboard LH : Various STC's Issue P/O to ATG : 1- Anodize Black per MIL-A-8625, Type II, Class 2 as per Dwg. D5590 2- Prime Grey as per Dwg. Certification of Conformity is required.	Firmed	-	12/4/18	3 pcs	0 pcs	3 pcs	\$8.18/pcs	\$24.54
10	R185746-B	RBT400214-1	Frame Weld Mount -Issue P/O to ATG; PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant -Material type; 6061 -Certificate of Conformity is required	Firmed	-	12/4/18	2 pcs	0 pcs	2 pcs	\$3.68/pcs	\$7.36
11	184449	RBD29905-15	Center Plate -Issue P/O to ATG : PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant	Firmed	-	12/4/18	10 pcs	0 pcs	10 pcs	\$3.68/pcs	\$36.80



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041681

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
12	178966	RBE703A94-1130-01-03	Bottom Fixture 1 -Issue P/O to ATG : PO ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2 WATER SEALANT -Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$3.68/pcs	\$73.60
13	183376	D5355-041	Aft Clamp Assembly : Various STC's Issue P/O to ATG : Black Anodize as per Dwg D5355 Certification of Conformity is required.	Firmed	-	12/4/18	9 pcs	0 pcs	9 pcs	\$4.05/pcs	\$36.45
Line Item Note ** Need ASAP **											
14	180196	RBE703A94-1130-01-25	Tab Adjuster Handle -Issue P/O to ATG: ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 Water Seal - Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$2.65/pcs	\$53.00
15	178972	RBE703A94-1130-01-31	Tab Adjuster Gauge Plate -Issue P/O to ATG: ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 Water Seal - Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$2.55/pcs	\$51.00
16	172293	269T3319-7	Handle -Issue P/O to ATG: ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 WATER SEAL -Certificate of Conformity is required	Firmed	-	12/4/18	2 pcs	0 pcs	2 pcs	\$6.30/pcs	\$12.60



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO041681

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
17	178974	RBE703A94-1130-01-09	Bottom Fixture 2 -Issue P/O to Groupe Altech: PO - ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2 WATER SEALANT -Certificate of Conformity is required	Firmed	-	12/4/18	20 pcs	0 pcs	20 pcs	\$3.68/pcs	\$73.60

Grand Total: \$783.19

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/16/18 8:14 AM dart.tsimiklis.chrisoula



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 916556

Date: 20-Nov-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chrisoula Tsimiklis
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
✓ 20 ea	Part: D2348 ✓ Wearplate (Key Way) Anodize per MIL-A-8625F, Type II, Class 2, Black, .0004-.0010" (.4 - 1 mils). Job: 24040 PO: PO041681 ✓ Rev: C Line: 1	DAS 38 9-99	
✓ 20 ea	Part: RBE703A94-1130-01-11 ✓ Angle Indicator Clear Anodize per MIL-A-8625F, Type II, Class 1, .0004-.0010" (.4 - 1 mils), Water Sealant Job: 24121 PO: PO041681 ✓ Rev: 6 Line: 4		
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>20/11/2018</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt. Made in Canada.			

